

Title (en)

Interference canceller for use in a multibeam-antenna CDMA communication system

Title (de)

Interferenzkompensator für ein Mehrkeulenantennen CDMA-Kommunikationssystem

Title (fr)

Annuleur d'interférence pour un système de communication à AMDC avec antenne à faisceaux multiples

Publication

EP 0849888 A2 19980624 (EN)

Application

EP 97122151 A 19971216

Priority

JP 34092096 A 19961220

Abstract (en)

A multistage interference canceller equipment and interference canceller method for use, for example, in CDMA (Code Division Multiple Access) multibeam-antenna communication system includes in each stage an interference canceller unit which has a replica signal generator which generates from an input beam signal a first interference replica signal and outputs a first error signal, and an interference removal unit which receives from another replica signal generator a second interference replica signal, multiplies that second interference replica signal by conversion coefficients and subtracts an obtained signal from the first interference replica signal to produce a second error signal so that an error signal is generated for each signal beam from the interference replica signals of a local signal beam and other signal beams to eliminate interference.

<IMAGE>

IPC 1-7

H04B 7/00; **H04B 1/707**; **H04B 7/08**

IPC 8 full level

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CPC (source: EP KR US)

H04B 1/71075 (2013.01 - EP US); **H04B 1/711** (2013.01 - KR); **H04B 7/086** (2013.01 - EP US); **H04B 7/0848** (2013.01 - EP US)

Cited by

EP1225706A4; EP1191709A4; EP1209761A4; GB2381715A; GB2381715B; GB2384665A; GB2384665B; GB2384662A; GB2384662B; EP0982872A3; GB2384661A; GB2384661B; GB2384664A; GB2384664B; GB2384660A; GB2384660B; US7386032B2; US7650116B2; US7474692B2; US6882681B2; US7286800B2; US6956892B2; WO0233838A3; WO0036765A1; WO2005050869A1; US7295597B2; US6480482B1; EP1220355B1

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